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1 Artificial intelligence #1: A mobile robot for corridor navigation: a multi-agent approach Y. Ono, H. Uchiyama, W. Potter

April 2004 Proceedings of the 42nd annual Southeast regional conference

window

Full text available: pdf(603.53 KB) Additional Information: full citation, abstract, references, index terms

This project focuses on building an autonomous vehicle as the test bed for the future development of an intelligent wheelchair, by proposing a framework for designing and implementing a mobile robot control program that is easily expandable and portable to other robotic platforms. Using a robot equipped with a minimal set of sensors such as a camera and infrared sensors, our multi-agent based control system is built to tackle various problems encountered during corridor navigation. The control s ...

Keywords: collision avoidance, commercial robots and applications, fuzzy logic controller, machine vision, multi-agent systems

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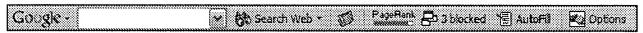
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Page 1. Guide to GIS and Image Processing Volume 2 May 2001 J. Ronald Eastman Clark

Labs Clark University 950 Main Street Worcester, MA 01610-1477 USA ...

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... Hence, it is important to calibrate the indicators to ... logic, implying that two input membership functions can have non ... are taken between each scaling factor (eg ... www.gtnews.com/article/5468.cfm?cfid=3808341& cfloken=21298993&pass1=2%25,%5CO%3A4%3CN%230F() %5C%5... - 33k - Dec 24, 2004 - Cached - Similar pages

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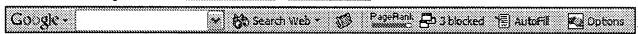
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1 Keynotes: Computational intelligence as an emerging paradigm of software engineering Witold Pedrycz

July 2002 Proceedings of the 14th international conference on Software engineering and knowledge engineering

Full text available: pdf(124.06 KB) Additional Information: full citation, abstract, references, index terms

Software Engineering is inherently knowledge intensive. Software processes and products are human centered. The technology of Computational Intelligence (CI) intensively exploits various mechanisms of interaction with humans and processes domain knowledge with intent of building intelligent systems. As commonly perceived, CI dwells on three highly synergistic technologies of neural networks, fuzzy sets (or granular computing, in general) and evolutionary optimization. As the software complexity ...

Keywords: computational intelligence, data visualization, genetic optimization, granular computing, neural networks, software quality, synergy, uncertainty representation

² Information granulation for concept formation

W. Pedrycz, A. V. Vasilakos, A. Gacek

March 2000 Proceedings of the 2000 ACM symposium on Applied computing

Full text available: pdf(468.28 KB) Additional Information: full citation, references, index terms

Keywords: fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator

³ Image I: Retrieval of 3D objects by visual similarity

Jürgen Assfalg, Alberto Del Bimbo, Pietro Pala
October 2004 Proceedings of the 6th ACM STGMN

October 2004 Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval

Full text available: pdf(166.69 KB) Additional Information: full citation, abstract, references, index terms

Along with images and videos, 3D models have recently gained increasing attention for a number of reasons: advancements in 3D hardware and software technologies, their ever decreasing prices and increasing availability, affordable 3D authoring tools, and the establishment of open standards for 3D data interchange. The ever increasing availability of

3D models demands for tools supporting their effective and efficient management. Among these tools, those enabling content-based retrieval play a ...

Keywords: 3D models, content-based retrieval, spin images

4 Artificial intelligence #1: A mobile robot for corridor navigation; a multi-agent approach Y. Ono, H. Uchiyama, W. Potter



April 2004 Proceedings of the 42nd annual Southeast regional conference

Full text available: 7 pdf(603,53 KB) Additional Information: full citation, abstract, references, index terms

This project focuses on building an autonomous vehicle as the test bed for the future development of an intelligent wheelchair, by proposing a framework for designing and implementing a mobile robot control program that is easily expandable and portable to other robotic platforms. Using a robot equipped with a minimal set of sensors such as a camera and infrared sensors, our multi-agent based control system is built to tackle various problems encountered during corridor navigation. The control s ...

Keywords: collision avoidance, commercial robots and applications, fuzzy logic controller, machine vision, multi-agent systems

5 Experiences with criticality predictions in software development Christof Ebert



November 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering, Volume 22 Issue 6

Full text available: pdf(1.36 MB)

Additional Information: full citation, references, citings, index terms

Keywords: classification, criticality prediction, data analysis, eomplexity, quality models, software metrics

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41 Predicting expert system success: an expert system for expert systems Il-Yeol Song, Joseph LaGue

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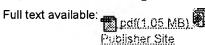
September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems

Full text available: pdf(1.78 MB)

Additional Information: full citation, references, index terms

42 An analytic framework for specifying and analyzing imprecise requirements Xiaoqing Frank Liu, John Yen

May 1996 Proceedings of the 18th international conference on Software engineering



Additional Information: full citation, abstract, references, citings, index terms

There are at least three challenges with requirements analysis. First, it needs to bridge informal requirements, which are often vague and imprecise, to formal specification methods. Second, requirements often conflict with each other. Third, existing formal requirement specification methodologies are limited in supporting trade-off analysis between conflicting requirements and identifying the impact of a requirement change to the rest of the system. In this paper, an analytic framework is devel ...

Keywords: conflict resolution, conflicting requirements, cooperative requirements, formal specification, formal specification methods, fuzzy logic, implicit conflicts, imprecise requirements specification, informal requirements, irrelevant requirements, mutually exclusive requirements, relative priorities, requirement change, requirements analysis, systems analysis, trade-off analysis

43 Image retrieval, users and usability: A search engine for historical manuscript images Toni M. Rath, R. Manmatha, Victor Lavrenko

July 2004 Proceedings of the 27th annual international conference on Research and development in information retrieval

Full text available: 📆 pdf(346.95 KB) — Additional Information; full citation, abstract, references, index terms

Many museum and library archives are digitizing their large collections of handwritten historical manuscripts to enable public access to them. These collections are only available in image formats and require expensive manual annotation work for access to them. Current handwriting recognizers have word error rates in excess of 50% and therefore

cannot be used for such material. We describe two statistical models for retrieval in large collections of handwritten manuscripts given a text query. Bo ...

Keywords: handwriting retrieval, historical manuscripts, relevance models

44 Session 6B; social order: An approach to the analysis and design of multiagent systems based on interaction frames

Michael Rovatsos, Gerhard Weiss, Marco Wolf

July 2002 Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

Full text available: pdf(265,20 KB)

Additional Information: full citation, abstract, references, citings, index

This paper introduces InFFrA, a novel method for the analysis and design of multiagent systems that is based on the notions of interaction frames and framing. We lay out a conceptual framework for viewing multiagent systems (MAS) as societies consisting of socially intelligent agents that record and organise their interaction experience so as to use it strategically in future interactions. We also provide criteria for the class of MAS InFFrA is suited for. The benefits of our approach are that i ...

Keywords: control & norms, coordinating multiple agents & activities, social order, social reasoning architectures, sociologically grounded methods, theories of agency and autonomy

45 Abstract interaction tools: a language for user interface management systems Jan Van Den Bos



April 1988 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 10 Issue 2

Full text available: pdf(2.45 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

46 Session 3: Techniques and applications of software evolution: Software architecture adaptability: an NFR approach



Nary Subramanian, Lawrence Chung

September 2001 Proceedings of the 4th International Workshop on Principles of **Software Evolution**

Full text available: pdf(891.66 KB)

Additional Information: full citation, abstract, references, citings, index

Adaptation of software systems is almost an inevitable process, due to the change in customer requirements, needs for faster development of new, or maintenance of existing, software systems, etc. No doubt numerous techniques have been developed to deal with adaptation of software systems. In this paper we present an overview of some of these techniques. As the first step in the development of software solution it is our opinion that software architecture should itself be adaptable for the final ...

Keyw rds: NFR framework, adaptability, knowledge base, non-functional requirements, software architecture

•	
47 Posters: Addressing the complexity of patient monitoring with multiagents and modular	
iogic Susan L. Mabry, Timothy Etters, Troy Schneringer, Naomi Edwards, Caleb Hug July 2003 Pr ceedings of the sec nd internati nal j int c nference n Aut n mous agents and multiagent systems Full text available: pdf(154.93 KB) Additional Information: fill citation, abstract, references, index terms	
While there is a recognized need among medical clinicians for assistance in monitoring and diagnostic tasks, the domain is extremely complex. Teams of distributed agents and interchangeable logic modules can address practical issues in a fielding of MAS technology. IM-Agents employ dynamic inference through a hybrid approach of fuzzy logic, connection networks, trend analysis and qualitative logic. Decision functionality in test cases involves emergency trauma scenarios, with particular focus on	
Keywords : diagnostics, fuzzy logic, monitoring, multiagents	
48 A survey of extensions to APL Karl Fritz Ruehr July 1982 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL, Volume 13 Issue 1	
Full text available: pdf(3.57 MB) Additional Information: full citation, abstract, references, citings, index terms	
A survey of proposed extensions to the APL language is made with emphasis placed on the motivations for various proposals, the differences between them and the consequences of their adoption. Some issues of a more general nature concerning the purpose, process and direction of language extension are also discussed. An extensive bibliography is provided with annotations concerning the nature, development and influence of various authors' works. Areas of extension encompassed by the survey in	,
49 Formalizing style to understand descriptions of software architecture Gregory D. Abowd, Robert Allen, David Garlan October 1995 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 4 Issue 4	
Full text available: pdf(2.93 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
The software architecture of most systems is usually described informally and diagrammatically by means of boxes and lines. In order for these descriptions to be meaningful, the diagrams are understood by interpreting the boxes and lines in specific, conventionalized ways. The informal, imprecise nature of these interpretations has a number of limitations. In this article we consider these conventionalized interpretations as architectural styles and provide a formal framework for their unif	
Keywords: Z notation, software architecture	
50 <u>Protocoi generation for communication channels</u> Sanjiv Narayan, Daniel D. Gajski June 1994 Proceedings f the 31st annual conference on Design automati	
Full text available: pdf(182,37 KB) Additional Information: full citation, references, citings, index terms	

⁵¹ A meta-environment for generating programming environments

P. Klint April 1993 ACM Transacti ns on S ftware Engineering and Meth d l gy (TOSEM), Volume 2 Issue 2	
Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
Over the last decade, considerable progress has been made in solving the problems of automatic generation of programming/development environments, given a formal definition of some programming or specification language. In most cases, research has focused on the functionality and efficiency of the generated environments, and, of course, these aspects will ultimately determine the acceptance of environment generators. However, only marginal attention has been paid to the development process	
52 Imprecise information and uncertainty in information systems J. M. Morrissey	
April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2	
Full text available: Additional Information: full citation, abstract, references, citings, index terms, review	
Information systems exist to model, store, and retrieve all types of data. Problems arise when some of the data are missing or imprecisely known or when an attribute is not applicable to a particular object. A consistent and useful treatment of such exceptions is necessary. The approach taken here is to allow any attribute value to be a regular precise value, a string denoting that the value is missing, a string denoting that the attribute is not applicable, or an imprecise value. The impre	
53 Design methodologies based on instruction code: Modeling assembly instruction timing	
in superscalar architectures G. Beltrame, C. Brandolese, W. Fornaciari, F. Salice, D. Sciuto, V. Trianni October 2002 Proceedings of the 15th international symposium on System Synthesis	
Full text available: pdf(179.59 KB) Additional Information: full citation, abstract, references, index terms	
This paper proposes an original model of the execution time of assembly instructions in superscalar architectures. The approach is based on a rigorous mathematical model and provides a methodology and a toolset to perform data analysis and model tuning. The methodology also provides a framework for building new trace simulators for generic architectures. The results obtained show a good accuracy paired with a satisfactory computational efficiency.	
Keywords: assembly-level analysis, performance estimation, superscalar architectures	
54 Exploring knowledge acquisition tools for a veterinary medical expert system M. McLeish June 1988 Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2	
Full text available: pdf(679.12 KB) Additional Information: full citation, references, index terms	
Posters and Short Papers: LinStar texture: a fuzzy logic CBIR system for textures Hsin-Chih Lin, Chih-Yi Chiu, Shi-Nine Yang October 2001 Pr ceedings of the ninth ACM international conference in Multimedia	
Full text available: pdf(8.40 MB) Additional Information: full citation, abstract, references, index terms	
In this study, we propose a fuzzy logic CBIR system for textures, named LinStar Texture	

(i.e., Linguistic Star for Textures). The proposed system consists of two major phases, including database creation and query comparison. In the database creation phase, six Tamura features are extracted to describe each texture image in the database. A term set on each Tamura feature is generated through a fuzzy clustering algorithm so that degrees of appearance for the feature can be interpreted as five lin ...

Keywords: content-based image retrieval (CBIR), fuzzy clustering, linguistic term, semantic gap, tamura feature, term set

56 Agent-based semantic interoperability in infosleuth

Jerry Fowler, Brad Perry, Marian Nodine, Bruce Bargmeyer March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Full text available: pdf(1.01 MB)

Additional Information: full citation, citings, index terms

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21 Image annotation and video summarization: Contrast-based image attention analysis by using fuzzy growing

Yu-Fei Ma, Hong-Jiang Zhang

November 2003 Proceedings of the eleventh ACM international conference on Multimedia

Full text available: pdf(808.71 KB) Additional Information: full citation, abstract, references, index terms

Visual attention analysis provides an alternative methodology to semantic image understanding in many applications such as adaptive content delivery and region-based image retrieval. In this paper, we propose a feasible and fast approach to attention area detection in images based on contrast analysis. The main contributions are threefold: 1) a new saliency map generation method based on local contrast analysis is proposed; 2) by simulating human perception, a fuzzy growing method is used to ext ...

Keywords: attention detection, contrast analysis, fuzzy growing, image analysis, visual attention model

22 VLSI design: Hardware architecture and FPGA implementation of a type-2 fuzzy system

Miguel A. Melgarejo, Carlos A. Peña-Reyes

April 2004 Proceedings of the 14th ACM Great Lakes symposium on VLSI

Full text available: Additional Information: full citation, abstract, references, index terms

This paper presents an architectural proposal for a hardware-based interval type-2 fuzzy inference system. First, it presents a computational model which considers parallel inference processing and type reduction based on computing inner and outer bound sets. Taking into account this model, we conceived a hardware architecture with several pipeline stages for full parallel execution of type-2 fuzzy inferences. The architectural proposal is used for specifying a type-2 fuzzy processor with reconf ...

Keywords: FPGA, distributed arithmetic, fuzzy hardware, interval type-2 fuzzy systems, type-2 fuzzy logic

23 Level of detail: Visual importance-biased image synthesis animation Ross Brown, Binh Pham, Anthony Maeder

February 2003 Proceedings f the 1st internati nal conference on Computer graphics

and interactive techniques in Australasia and S uth East Asia

Full text available: pdf(429.09 KB) Additional Information: full citation, abstract, references, index terms

Present ray tracing algorithms are computationally intensive, requiring hours of computing time for complex scenes. Our previous work has dealt with the development of an overall approach to the application of visual attention to progressive and adaptive ray-tracing techniques. The approach facilitates large computational savings by modulating the supersampling rates in an image by the visual importance of the region being rendered. This paper extends the approach by incorporating temporal change ...

Keywords: animation techniques, image synthesis, motion importance

24 Visualization: Analysis of visualisation requirements for fuzzy systems

Binh Pham, Ross Brown

February 2003 Proceedings of the 1st international conference on Computer graphics and interactive techniques in Australasia and South East Asia

Full text available: pdf(304.01 KB)

Additional Information: full citation, abstract, references, citings, index

This paper provides a comprehensive analysis of the working and requirements of fuzzy systems with the view to devise appropriate visualisation framework and techniques for these systems using a user- and task-oriented approach. We firstly discuss the nature of fuzzy data and the essential components of typical fuzzy systems, then categorise different visualisation requirements from three perspectives: user of fuzzy systems, designer of fuzzy systems and designer of visualisation systems. The vi ...

Keywords: fuzzy data, fuzzy rules, fuzzy systems, visualisation techniques

25 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat

September 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 3

Full text available: R pdf(1.90 MB)

Additional Information: fall citation, abstract, references, citings, linclex terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

26 Posters P-2: Soft clustering criterion functions for partitional document clustering: a summary of results



Ying Zhao, George Karypis

November 2004 Proceedings of the Thirteenth ACM conference on Information and kn wledge management

Full text available: pdf(58.40 KB)

Additional Information: full citation, abstract, references, index terms

Recently published studies have shown that partitional clustering algorithms that optimize certain criterion functions, which measure key aspects of inter- and intra-cluster similarity, are very effective in producing hard clustering solutions for document datasets and

outperform traditional partitional and agglomerative algorithms. In this paper we study the extent to which these criterion functions can be modified to include soft membership functions and whether or not the resulting soft cl ...

Keywords: document clustering, soft clustering

27 Pen computing: a technology overview and a vision



André Meyer

July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available: pdf(5.14 MB)

Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

²⁸ QualProbes: middleware QoS profiling services for configuring adaptive applications
Baochun Li, Klara Nahrstedt



April 2000 IFIP/ACM International Conference on Distributed systems platforms

Full text available: pdf(342.76 KB) Additional Information: full citation, abstract, references, citings

It is widely accepted that in order to deliver the best Quality-of-Service (QoS), applications need to be adaptive to the fluctuating computing and communication environments. The middleware layer may assist by controlling the behavior of the applications so that they adapt and reconfigure themselves. In this paper, we present *QualProbes*, a set of middleware *QoS Probing and Profiling* services to discover such relationships at run-time. Our approach focuses on meeting the require ...

29 Fuzzy neural fusion techniques for industrial applications



S. K. Halgamuge, M. Glesner

April 1994 Proceedings of the 1994 ACM symposium on Applied computing

Full text available: pdf(563.19 KB) Additional Information: full citation, references, index terms

Keywords: Iris classification, backpropagation, cascade systems, fuzzy step net, fuzzy-neural, rule generation

30 Linguistics: semantics: Fuzzy word meaning analysis and representation in linguistic semantics, an empirical approach to the reconstruction of lexical meanings in Eastand West-German newspaper texts



Burghard B. Rieger

September 1980 Proceedings of the 8th conference on Computational linguistics

Full text available: pdf(757.94 KB) Additional Information: full citation, references, citings

31 Industrial applications: The importance of dealing with uncertainty in the evaluation of software engineering methods and tools



Gerardo Canfora, Luigi Troiano

July 2002 Pr ceedings f the 14th international conference in Software engineering

and kn wledge engineering

Full text available: pdf(336.10 KB) Additional Information: foll citation, abstract, references, index terms

The correct choice of software tools and methods is a critical success factor to reach and maintain market leadership. A mature approach to estimate the impact and risk of technology adoption is required. This paper underlines the need for dealing with uncertainty to manage correctly the risk of decision-making and proposes a method for evaluating software engineering methods and tools. The method, named Software Engineering Fuzzy Evaluation Method (SEFEM) is centred on a new class of fuzzy aggr ...

Keywords: aggregation, decision making, decision support systems, evaluation, fuzzy logic

32 <u>Using fuzzy grammars for the evaluation of SGML</u>-based documents
Francesca Arcelli Fontana, Fennante Formato
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(209.13 KB) Additional Information: full citation, references, index terms

Keywords: SGML, document evaluation, fuzzy grammars

33 Computer security (SEC): Towards multisensor data fusion for DoS detection Christos Siaterlis, Basil Maglaris
Manual 2004 Properties

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(276.26 KB) Additional Information: full citation, abstract, references, index terms

In our present work we introduce the use of data fusion in the field of DoS anomaly detection. We present Dempster-Shafer's Theory of Evidence (D-S) as the mathematical foundation for the development of a novel DoS detection engine. Based on a data fusion paradigm, we combine multiple evidence generated from simple heuristics to feed our D-S inference engine and attempt to detect flooding attacks. Our approach has as its main advantages the modeling power of Theory of Evidence in expressing belie ...

Keywords: Denial of Service, anomaly detection, data fusion

34 Artificial intelligence #1: A mobile robot for corridor navigation: a multi-agent approach Y. Ono, H. Uchiyama, W. Potter

April 2004 Proceedings of the 42nd annual Southeast regional conference

Full text available: pdf(603.53 KB) Additional Information: full citation, abstract, references, index terms

This project focuses on building an autonomous vehicle as the test bed for the future development of an intelligent wheelchair, by proposing a framework for designing and implementing a mobile robot control program that is easily expandable and portable to other robotic platforms. Using a robot equipped with a minimal set of sensors such as a camera and infrared sensors, our multi-agent based control system is built to tackle various problems encountered during corridor navigation. The control s ...

Keywords: collision avoidance, commercial robots and applications, fuzzy logic controller, machine vision, multi-agent systems

35

Composite document extended retrieval: an overview

Edward A. Fox

June 1985 Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings

Experimental information retrieval (IR) systems, some dating back to the sixties, have demonstrated the viability of fully automatic document storage and retrieval methodologies with small to medium size bibliographic collections [72]. Many of these experimental systems utilize the vector space model in which each important term (such as a word stem) identifies a different dimension in a space, so that matrix methods and vector operations can be defined on queries and documents. Statistical ...

36 Plant control expert system coping with unforeseen events—model based reasoning using fuzzy qualitative reasoning



J. Suzuki, N. Sueda, Y. Gotoh, A. Kamiya

June 1990 Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1

Full text available: pdf(856.86 KB) Additional Information: full citation, abstract, references, index terms

An ordinary expert system controls a plant according to heuristics. So, it fails to control the plant for lack of heuristics if unforeseen events occur as a result of abnormal situations. We propose a new framework of model-based reasoning that can dynamically generate the knowledge for plant control against unforeseen events. This proposed framework consists of three functions: (a) generation of the goal state after recovery from the unforeseen events; (b) generation of knowledge f ...

37 Information access and retrieval (IAR): Experiments on using fuzzy quantified sentences in adhoc retrieval



David E. Losada, Félix Díaz-Hermida, Alberto Bugarín, Senén Barro March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(284,93 KB) Additional Information: full citation, abstract, references, index terms

In this work we implement and evaluate a fuzzy approach to Information Retrieval whose query language incorporates fuzzy quantifiers. Fuzzy quantified sentences are suitable for imposing additional restrictions in the retrieval process which are not typical in classic information retrieval. Moreover, fuzzy quantifiers can be implemented in different relaxed ways leading to a wide range of methods for combining query terms. The large-scale evaluation conducted here shows clearly the practical ben ...

Keywords: Information Retrieval, fuzzy quantifiers

A fuzzy ontology for medical document retrieval David Parry



January 2004 Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32

Full text available: pdf(218.48 (B) Additional Information: full citation, abstract, references

Ontologies represent a method of formally expressing a shared understanding of information, and have been seen by many authors as a prerequisite for the "Semantic web". A mapping between query terms and members of an ontology is usually a key part of any ontology enhanced searching tool. However the relative importance of a particular mapping to an overloaded term may be different for different users, and this information is vital for accurate satisfaction of a query. One way of overcoming this p ...

Keyw rds: fuzzy logic, information retrieval, ontology, ontology combination

39 Image I: Retrieval of 3D objects by visual similarity

Jürgen Assfalg, Alberto Del Bimbo, Pietro Pala

October 2004 Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval

Full text available: pdf(166.89 KB) Additional Information: full citation, abstract, references, index terms

Along with images and videos, 3D models have recently gained increasing attention for a number of reasons: advancements in 3D hardware and software technologies, their ever decreasing prices and increasing availability, affordable 3D authoring tools, and the establishment of open standards for 3D data interchange. The ever increasing availability of 3D models demands for tools supporting their effective and efficient management. Among these tools, those enabling content-based retrieval play a ...

Keywords: 3D models, content-based retrieval, spin images

40 Rough sets and information retrieval

P. Das-Gupta

May 1988 Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.43 MB)

Additional Information: full citation, abstract, references, citings, index

The theory of rough sets was introduced [PAWLAK82]. It allows us to classify objects into sets of equivalent members based on their attributes. We may then examine any combination of the same objects (or even their attributes) using the resultant classification. The theory has direct applications in the design and evaluation of classification schemes and the selection of discriminating attributes. Pawlak's papers discuss its application in the domain of medical diagnostic systems. Here we a ...

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John Colter, Netscape Navigator

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museum +"natural history" dinosaur -Chicago

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John Colter, Netscape Navigator

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• Exclude pages by using a - if a search term <u>must not appear</u> on a page.

museum -Paris

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museum +"natural history" dinosaur -Chicago

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1 Research track posters: A data mining approach to modeling relationships among categories in image collection

Ruofei Zhang, Zhongfei (Mark) Zhang, Sandeep Khanzode August 2004 Proceedings of the 2004 ACM SIGKDD international conference on

Knowledge discovery and data mining Full text available: pdf(226.89 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a data mining approach to modeling relationships among categories in image collection. In our approach, with image feature grouping, a visual dictionary is created for color, texture, and shape feature attributes respectively. Labeling each training image with the keywords in the visual dictionary, a classification tree is built. Based on the statistical properties of the feature space we define a structure, called a-Semantics Graph, to discover the hidden semanti ...

Keywords: fuzzy model, image collection, relationships, semantic category

Learning I: Boosting contextual information in content-based image retrieval Jaume Amores, Nicu Sebe, Petia Radeva, Theo Gevers, Arnold Smeulders October 2004 Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval



Full text available: pdf(254.37 KB) Additional Information: full citation, abstract, references, index terms

We present a new framework for characterizing and retrieving objects in cluttered scenes. Objects are best represented by characterizing both their parts and the mutual spatial relations among them. This CBIR system is based on a new representation describing every object taking into account the local properties of its parts and their mutual spatial relations, without relying on accurate segmentation. For this purpose, a new multi-dimensional histogram is used that measures the joint distribu ...

Keywords: boosting, content-based image retrieval oject recognition, contextual information

3 Taxonomic ambiguities in category variations needed to support machine conceptualization

L J Mazlack

December 1986 Pr ceedings f the ACM SIGART international symp sium n

Meth d I gies for intelligent systems

Full text available: pdf(611.36 KB) Additional Information: full citation, abstract, references, index terms

This is a theoretical expositional exploration into the underlying needs of concept formation. The main purpose is to identify and discuss the differing forms of categorization in the context of possible machine learning and representation of those concepts. Conceptualization is the process of developing the abstractions that are needed to support reasoning. The formation of the machine equivalent of human concepts is critical to the development of a general, machine based reasoning ...

4 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

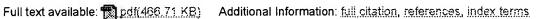
Full text available: pdf(636,24 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

A diagnostic system based on a multi-decision approximate rules model Ray R. Hashemi, Fred Choobineh, John Talburt, William Slikker, Merle G. Paule April 1997 Proceedings of the 1997 ACM symposium on Applied computing



Keywords: approximate rule, diagnostic system, modified rough sets, multi-decision approximate rule, rough sets

Improving object-oriented methods by using fuzzy logic

Francesco Marcelloni, Mehmet Aksit

December 2000 ACM SIGAPP Applied Computing Review, Volume 8 Issue 2.

Full text available: pdf(904.41 KB) Additional Information: full citation, abstract, index terms

Object-oriented methods create software artifacts through the application of a large number or rules. Rules are typically formulated in two-valued logic. There are a number of problems on how rules are defined and applied in current methods. First, two-valued logic can capture completely neither method developers' intuition nor software engineers' perception or artifact types. Second, artifacts are generally produced based only on a subset of relevant properties. Third, two-valued logic does not ...

Keywords: adaptable design models, development environments, fuzzy logic-based reasoning, object-oriented methods, quantization error

7 Designing for scale and differentiation Karen R. Sollins



August 2003 ACM SIGCOMM C mputer C mmunication Review , Pr ceedings of the ACM SIGCOMM w rksh p on Future directi ns in network architecture.

Volume 33 Issue 4

Full text available: pdf(345.48 KB) Additional Information: full citation, abstract, references, index terms

Naïve pictures of the Internet frequently portray a small collection of hosts or LAN's connected by a "cloud" of connectivity. The truth is more complex. The IP-level structure of the Internet is composed from a large number of constituent networks, each of which differs in some or all of transmission technologies, routing protocols, administrative models, security policies, QoS capabilities, pricing mechanisms, and similar attributes. On top of this, a whole new structure of application-la ...

Keywords: Network Architecture, extensibility, heterogeneity, scalability

Estimation of the cell loss ratio in ATM networks with a fuzzy system and application to measurement-based call admission control



Brahim Bensaou, Shirley T. C. Lam, Hon-Wai Chu, Danny H. K. Tsang August 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 4

Full text available: 📆 pdf(249.06 KB) Additional Information: full citation, references, citings, index terms

Keywords: ATM, call admission control, cell loss ratio, fuzzy logic

9 Finknn: a fuzzy interval number k-nearest neighbor classifier for prediction of sugar production from populations of samples



Vassilios Petridis, Vassilis G. Kaburlasos

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(360,76 KB) Additional Information: full citation, abstract, references, index terms

This work introduces FINKNN, a k-nearest-neighbor classifier operating over the metric lattice of conventional interval-supported convex fuzzy sets. We show that for problems involving populations of measurements, data can be represented by fuzzy interval numbers (FINs) and we present an algorithm for constructing FINs from such populations. We then present a lattice-theoretic metric distance between FINs with arbitrary-shaped membership functions, which forms the basis for FINKNN' ...

10 Automatic Synthesis of CMOS Operational Amplifiers: A Fuzzy Optimization Approach



Biranchinath Sahu, Aloke K. Dutta

January 2002 Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design



Additional Information: full citation, abstract

In this paper, we present a method for optimizing and automating the components and transistor sizing for CMOS operational amplifiers (op-amps). The optimization approaches used for the synthesis of analog circuits are found to be very much rigid in terms of capturing human intentions. In this work, we have observed that with the use of fuzzy membership functions, human intentions for expressing wide variety of requirements, e.g., minimize power, maximize gain, etc., which are often conflicting ...

11 Data mining: Wavelet fuzzy classification for detecting and tracking region outliers in meteorological data Chang-Tien Lu, Lily R. Liang



November 2004 Pr ceedings of the 12th annual ACM internati nal w rkshop on Ge graphic inf rmati n systems

Full text available: pdf(581,72 KB) Additional Information: full citation, abstract, references, index terms

In this paper, a wavelet fuzzy classification approach is proposed to detect and track region outliers in meteorological data. First wavelet transform is applied to meteorological data to bring up distinct patterns that might be hidden within the original data. Then a powerful image processing technique, edge detection with competitive fuzzy classifier, is extended to identify the boundary of region outlier. After that, to determine the center of the region outlier, the fuzzy-weighted average ...

Keywords: fuzzy classification, outlier detection, spatial data mining

12 Information granulation for concept formation

W. Pedrycz, A. V. Vasilakos, A. Gacek

March 2000 Proceedings of the 2000 ACM symposium on Applied computing

Full text available: 📆 pdf(468.28 KB) — Additional Information: full citation, references, index terms

Keywords: fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator

13 The Datacycle architecture

T. F. Bowen, G. Gopal, G. Herman, T. Hickey, K. C. Lee, W. H. Mansfield, J. Raitz, A. Weinrib December 1992 Communications of the ACM, Volume 35 Issue 12

Full text available: pdf(3.91 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: VLSI filtering, concurrency control, data filtering, database architectures, database machines, fuzzy queries, high performance, transaction processing

14 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(335,47 KB) terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

15 Clustering algorithms: Alternatives to the k-means algorithm that find better clusterings Greg Hamerly, Charles Elkan

November 2002 Pr ceedings f the eleventh internati nal conference n Inf rmation and knowledge management

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, index terms

We investigate here the behavior of the standard k-means clustering algorithm and several alternatives to it: the k-harmonic means algorithm due to Zhang and colleagues, fuzzy kmeans, Gaussian expectation-maximization, and two new variants of k-harmonic means. Our aim is to find which aspects of these algorithms contribute to finding good clusterings, as opposed to converging to a low-quality local optimum. We describe each algorithm in a unified framework that introduces separate cluster membe ...

Keywords: clustering quality, k-harmonic means, k-means, unsupervised classification

16 MEGA—the maximizing expected generalization algorithm for learning complex guery concepts



Edward Chang, Beitao Li

October 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 4

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, index terms

Specifying exact query concepts has become increasingly challenging to end-users. This is because many query concepts (e.g., those for looking up a multimedia object) can be hard to articulate, and articulation can be subjective. In this study, we propose a query-concept learner that learns query criteria through an intelligent sampling process. Our concept learner aims to fulfill two primary design objectives: (1) it has to be expressive in order to model most practical query concepts and (2) i ...

Keywords: Active learning, data mining, query concept, relevance feedback

17 Posters and Short Papers: FIRM: fuzzily integrated region matching for content-based image retrieval



Yixin Chen, James Z. Wang, Jia Li

October 2001 Proceedings of the ninth ACM international conference on Multimedia

Full text available: Additional Information: full citation, abstract, references, index terms

We propose FIRM (Fuzzily Integrated Region Matching), an efficient and robust similarity measure for region-based image retrieval. Each image in our retrieval system is represented by a set of regions that are characterized by fuzzy sets. The FIRM measure, representing the overall similarity between two images, is defined as the similarity between two families of fuzzy sets. Compared with similarity measures based on individual regions and on all regions with crisp feature representations, our a ...

18 ICOS: an intelligent concurrent object-oriented synthesis methodology for multiprocessor systems



Pao-Ann Hsiung, Chung-Hwang Chen, Trong-Yen Lee, Sao-Jie Chen

April 1998 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 3 Issue 2

Additional Information: full citation, abstract, references, citings, index. Full text available: pdf(728,78 KB) terms

The design of multiprocessor architectures differs from uniprocessor systems in that the number of processors and their interconnection must be considered. This leads to an enormous increase in the design-space exploration time, which is exponential in the total number of system components. The methodology proposed here, called Intelligent Concurrent Object-Oriented Synthesis (ICOS) methodology, makes feasible the synthesis of complex multiprocessor systems through the appl ...

Keywords: concurrent object-oriented system-level synthesis, fuzzy design-space

exploration, learning

19 Fuzzy genetic controllers for the autonomous rendezvous and docking problem Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari February 1995 Pr ceedings f the 1995 ACM symposium on Applied computing



Full text available: pdf(582.45 KB) Additional Information: full citation, references, index terms

Keywords: docking, fuzzy, genetic algorithm, transportation

20 Facial image retrieval, identification, and inference system

J. K. Wu, Y. H. Ang, P. C. Lam, S. K. Moorthy, A. D. Narasimhalu September 1993 Proceedings of the first ACM international conference on Multimedia

Full text available: pdf(293.46 KB)

ps(2.38 MB)

Additional Information: full citation, references, index terms

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A diagnostic system based on a multi-decision approximate rules model Ray R. Hashemi, Fred Choobineh, John Talburt, William Slikker, Merle G. Paule April 1997 Proceedings of the 1997 ACM symposium on Applied computing

Full text available: pdf(486.71 KB) Additional Information: full citation, references, index terms

Keywords: approximate rule, diagnostic system, modified rough sets, multi-decision approximate rule, rough sets

2 Fuzzy signals in control loops

Rainer Palm

February 1995 Proceedings of the 1995 ACM symposium on Applied computing

Full text available: 📆 pdf(588.65 KB) — Additional Information: full citation, references, index terms

Keywords: Takagi/Sugeno controller, fuzzy control, fuzzy inputs, noisy signals

3 Implementation of fuzzy logic and neural networks control algorithm using a digital signal processing chip

Kishan Kumar Kumbla, Mohammad Jamshidi, Jorge Benitez-Read February 1995 Proceedings of the 1995 ACM symposium on Applied computing

Full text available: pdf(453.87 KB) Additional Information: full citation, references, index terms

Keywords: digital signal processor, fuzzy logic, inverse kinematics, neural networks, selforganizing controller

A JPEG codec adaptive to region importance Jiying Zhao, Yoshihisa Shimazu, Koji Ohta, Rina Hayasaka, Yutaka Matsushita February 1997 Proceedings f the f urth ACM internati nal conference on Multimedia

Full text available: pdf(1,47 MB)

Additional Information: full citation, references, index terms

Keyw rds: JPEG, adaptive codec, fuzzy reasoning, human visual system, region importance

5 Industrial applications: The importance of dealing with uncertainty in the evaluation of software engineering methods and tools



Gerardo Canfora, Luigi Troiano

July 2002 Proceedings of the 14th international conference on Software engineering and knowledge engineering

Full text available: pdf(336.10 KB) Additional Information: full citation, abstract, references, index terms

The correct choice of software tools and methods is a critical success factor to reach and maintain market leadership. A mature approach to estimate the impact and risk of technology adoption is required. This paper underlines the need for dealing with uncertainty to manage correctly the risk of decision-making and proposes a method for evaluating software engineering methods and tools. The method, named Software Engineering Fuzzy Evaluation Method (SEFEM) is centred on a new class of fuzzy aggr ...

Keywords: aggregation, decision making, decision support systems, evaluation, fuzzy logic

Fuzzy neural fusion techniques for industrial applications



S. K. Halgamuge, M. Glesner

April 1994 Proceedings of the 1994 ACM symposium on Applied computing

Full text available: pdf(563.19 KB) Additional Information: full citation, references, index terms

Keywords: Iris classification, backpropagation, cascade systems, fuzzy step net, fuzzy-neural, rule generation

Fuzzy genetic controllers for the autonomous rendezvous and docking problem Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari February 1995 Proceedings of the 1995 ACM symposium on Applied computing



Full text available: notified (582.45 KB) Additional Information: full citation, references, index terms

Keywords: docking, fuzzy, genetic algorithm, transportation

8 Manufacturing applications: Simulation of an evolutionary tuned fuzzy dispatching system for automated guided vehicles



K. K. Tan, K. Z. Tang

December 2000 Proceedings of the 32nd conference on Winter simulation

Full text available: pdf(286.34 KB) Additional Information: full citation, abstract, references

This paper presents the development and simulation of a novel Genetic Algorithm (GA) based methodology applied to optimal tuning of a fuzzy dispatching system for a fleet of automated guided vehicles in a flexible manufacturing environment. The dispatching rules are further transformed into a continuously adaptive procedure to capitalize the online information available from a shop floor at all times. The entire problem is simulated using

MATLAB/SIMULINK. The simulation results obtained show tha ...

9 GOSSIP: a generic system for statistical circuit design

L. J. Opalski, M. A. Styblinski

November 1992 Pr ceedings f the c nference on European design aut mati n

Full text available: pdf(647.81 KB) Additional Information: full citation, references, index terms

10 Fuzzy effectiveness evaluation for intelligent user interfaces to GIS visualization Volker Jung

November 1996 Proceedings of the 4th ACM international workshop on Advances in geographic information systems

Full text available: pdf(1.33 MB)

Additional Information: full citation, references, index terms

11 Fuzzy logic applied to compensation equipment in power electronics

Jürgen Häfner, Hans H. Bothe, Klemens Heumann

February 1996 Proceedings of the 1996 ACM symposium on Applied Computing

Full text available: pdf(1,38 M6) Additional Information: full citation, references, index terms

Keywords: active power filter, active shunt compensation, fuzzy tuning, hybrid compensation system, power electronics

12 A fuzzy model-based optimal control strategy

A. Afshari, C. Georgescu

April 1994 Proceedings of the 1994 ACM symposium on Applied computing

Full text available: pdf(625.26 KB) Additional Information: full citation, references, index terms

Keywords: fuzzy adjoint system, fuzzy logic, optimal control, receding horizon optimization, temperature control application, tracking problem

13 VLSI design: Hardware architecture and FPGA implementation of a type-2 fuzzy system

Miguel A. Melgarejo, Carlos A. Peña-Reyes

April 2004 Proceedings of the 14th ACM Great Lakes symposium on VLSI

Full text available: pdf(773.37 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an architectural proposal for a hardware-based interval type-2 fuzzy inference system. First, it presents a computational model which considers parallel inference processing and type reduction based on computing inner and outer bound sets. Taking into account this model, we conceived a hardware architecture with several pipeline stages for full parallel execution of type-2 fuzzy inferences. The architectural proposal is used for specifying a type-2 fuzzy processor with reconf ...

Keyw rds: FPGA, distributed arithmetic, fuzzy hardware, interval type-2 fuzzy systems, type-2 fuzzy logic







14 Rough sets and information retrieval

P. Das-Gupta

May 1988 Proceedings f the 11th annual internati nal ACM SIGIR c nference n Research and development in informati n retrieval

Full text available: pdf(1.43 MB)

Additional Information: fall citation, abstract, references, citings, index terms

The theory of rough sets was introduced [PAWLAK82]. It allows us to classify objects into sets of equivalent members based on their attributes. We may then examine any combination of the same objects (or even their attributes) using the resultant classification. The theory has direct applications in the design and evaluation of classification schemes and the selection of discriminating attributes. Pawlak's papers discuss its application in the domain of medical diagnostic systems. Here we a ...

15 Technical papers: DCAP: detecting misbehaving flows via collaborative aggregate policina



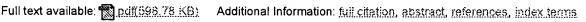
Chen-Nee Chuah, Lakshminarayanan Subramanian, Randy H. Katz October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 5

Full text available: pdf(281.15 KB) Additional Information: full citation, abstract, references

This paper proposes a detection mechanism called DCAP for a network provider to monitor incoming traffic and identify misbehaving flows without having to keep per-flow accounting at any of its routers. Misbehaving flows refer to flows that exceed their stipulated bandwidth limit. Through collaborative aggregate policing at both ingress and egress nodes, DCAP is able to quickly narrow the search to a candidate group that contains the misbehaving flows, and eventually identify the individua ...

Keywords: flow-level accounting, misbehaving flow detection, traffic policing

16 Managing subjective information in fuzzy database systems Hideo Tashiro, Naoto Ohki, Takahiko Nomura, Teruo Yokoyama, Yutaka Masushita March 1993 Proceedings of the 1993 ACM conference on Computer science



The recent improvement of computer hardware has made them possible to manage imprecise information. An example is the fuzzy database system which allows imprecise data as well as imprecise queries. However, one serious problem has not been solved when imprecise information is handled. That is, the problem of subjectivity. Each person has his/her own subjectivity, and the definition of a fuzzy expression usually differs among individuals. In this paper, we present a method for managi ...

17 Information granulation for concept formation

W. Pedrycz, A. V. Vasilakos, A. Gacek

March 2000 Proceedings of the 2000 ACM symposium on Applied computing

Full text available: pdf(468.28 KB) Additional Information: full citation, references, index terms

Keywords: fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator

18 FQUERY for Access: towards human consistent querying user interface Slawomir Zadrozny, Janusz Kacprzyk February 1996 Pr ceedings f the 1996 ACM symp sium n Applied C mputing



Full text available: pdf(518.52.KB) Additional Information: full citation, references, index terms

Keywords: fuzzy DBMS, fuzzy linguistic quantifier, fuzzy logic, fuzzy querying, relational

19 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

June 2000 Proceedings of the 22nd international conference on Software engineering

Full text available: pdf(217.34 KB)

Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keywords: WWW, software architectural style, software architecture

20 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Full text available: pdf(335,47 KB)

Additional Information: full citation, abstract, references, citings, index

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

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... In addition, the single wire bus allows battery state-of-health measurement

only when the host is 'married' to a designated battery pack. ...

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John Colter, Netscape Navigator

Enclose a <u>phrase</u> in double quotes to search for that exact phrase.

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81 NetNews: The more things change...

Dennis Fowler

September 2004 netWorker, Volume 8 Issue 3

Full text available: pdf(119.36 KB) html(20,42 KB)

Additional Information: full citation, index terms

82 Security: Fast authenticated key establishment protocols for self-organizing sensor networks



Qiang Huang, Johnas Cukier, Hisashi Kobayashi, Bede Liu, Jinyun Zhang September 2003 Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications

Full text available: pdf(303.95 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider efficient authenticated key establishment protocols between a sensor and a security manager in a self-organizing sensor network. We propose a hybrid authenticated key establishment scheme, which exploits the difference in capabilities between security managers and sensors, and put the cryptographic burden where the resources are less constrained. The hybrid scheme reduces the high cost public-key operations at the sensor side and replaces them with efficient symmetric- ...

Keywords: elliptic curve cryptography, key establishment, security, sensor network

83 Systems 1: Call and response: experiments in sampling the environment Maxim A. Batalin, Mohammad Rahimi, Yan Yu, Duo Liu, Aman Kansal, Gaurav S. Sukhatme, William J. Kaiser, Mark Hansen, Gregory J. Pottie, Mani Srivastava, Deborah Estrin November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(1.38 MB)

Additional Information: full citation, abstract, references, index terms

Monitoring of environmental phenomena with embedded networked sensing confronts the challenges of both unpredictable variability in the spatial distribution of phenomena, coupled with demands for a high spatial sampling rate in three dimensions. For example, low distortion mapping of critical solar radiation properties in forest environments may require two-dimensional spatial sampling rates of greater than 10 samples/m2 over transects exceeding 1000 m2. Clearly, adequate sampling coverage of ...

Keyw rds: adaptive sampling, distributed, mobile robotics, sensor network, task allocation

84 From ACM '80: The computerized destruction of western civilization



R. D. Parslow

April 1981 ACM SIGCAS Computers and Society, Volume 11 Issue 2

Full text available: pdf(492.51 KB) Additional Information: full citation, references

85 Papers: Wearable computing and the geographies of urban childhood; working with children to explore the potential of new technology



Morris Williams, Owain Jones, Constance Fleuriot

July 2003 Proceeding of the 2003 conference on Interaction design and children

Full text available: pdf(801.57 KB) Additional Information: foll citation, abstract, references

This paper describes a workshop run as part of 'A New Sense of Place?' an initiative exploring and developing the interface between children and new mobile 'wearable' ICTs. This initiative is one part of 'Mobile Bristol', a wider project developing wearable devices, their applications and understandings of their potential in social terms. 'A New Sense of Place?' is particularly interested in considering how these new technologies might integrate with childhood and how they might be applied to he ...

Keywords: augmented reality, children in the urban environment, design workshops, soundscapes, wearables

86 The computerized destruction of western civilization



R. D. Parslow

January 1980 Proceedings of the ACM 1980 annual conference

Full text available: pdf(467.99 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Informatics Revolution is having a more profound effect on civilization than either the Agricultural Revolution or the First Industrial Revolution.

87 Predicting student performance in a beginning computer science class



Laurie Honour Werth

February 1986 ACM SIGCSE Bulletin, Proceedings of the seventeenth SIGCSE technical symposium on Computer science education, Volume 18 Issue 1

Full text available: pdf(655.19 KB) Additional Information: full citation, abstract, index terms, review

This study investigated the relationship between the student's grade in a beginning computer science course and their sex, age, high school and college academic performance, number of mathematics courses, and work experience. Standard measures of cognitive development, cognitive style, and personality factors were also given to 58 students in three sections of the beginning Pascal programming class. Significant relationships were found between the letter grade and the students' c ...

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61 OOPSLA onward! track: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

December 2003 ACM SIGPLAN Notices, Volume 38 Issue 12

Full text available: pdf(2.62 MB)

Additional Information: full citation, abstract, references, index terms

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

62 Onward papers: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications

Full text available: pdf(1.81 MB)

Additional Information: full citation, abstract, references, index ferms

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

63 Poster presentations: Technology applied to address difficulties of Aizheimer patients and their partners

Janice Loh, Tomas Schietecat, Tsun Fai Kwok, Lucas Lindeboom, Peter Joore June 2004 Proceedings of the conference n Dutch directions in HCI

Full text available: pdf(87,13 KG)

Additional Information: full citation, abstract, references

This paper discusses how technological potential have brought true benefit to the lives of

people with Alzheimer.Contextual scenarios that illustrate certain problems faced by Alzheimer patients in their daily lives have been mapped out, and a conceptual solution enabled by technology is proposed. A discussion on the feasibility of this solution and its implementation ensues.

Keywords: Alzheimer, GPS, GSM, communication, industrial design, patients and caregivers, tracking, user research

64 Forth: Embed with Forth

Paul Frenger

August 2004 ACM SIGPLAN Notices, Volume 39 Issue 8

Full text available: pdf(87,37 KB) Additional Information: full citation, abstract, references

WARNING: Any reader with a tendency to technoparanoia should stop here and go no further! Information of a potential anxiety-provoking nature follows. Those persons not afraid of hidden, invisible computer systems are free to continue reading.

In October, 1995 I attended the ACM OOPSLA conference in Austin, Texas. The OOPSLA organizers were kind enough to allow me to present a 45 minute robotics demonstration twice, on Wednesday the 18th and Thursday the 19th [1]. This presentation des ...

65 Designing Ubiquitous Computing Games – A Report from a Workshop Exploring Ubiquitous Computing Entertainment

Staffan Björk, Jussi Holopainen, Peter Ljungstrand, Karl-Petter Åkesson January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6

Full text available: pdf(512.39 KB) Additional Information: full citation, abstract, index terms

We report from a Research Atelier that explored how ubiquitous computing could be applied to fun and entertainment. The Atelier lasted for five days, starting with two days of scenario development and brainstorming activities. This led to three fairly concrete – though very different – game ideas. The background and motivation for the Atelier is described, as well as the method used and the games developed.

Keywords: Computer games, Computer-based entertainment, Game design, Ubiquitous computing

66 Scoping in wireless sensor networks: a position paper

Jan Steffan, Ludger Fiege, Mariano Cilia, Alejandro Buchmann

October 2004 Proceedings of the 2nd workshop on Middleware for pervasive and adhoc computing

Full text available: pdf(291.99 KB) Additional Information: full citation, abstract, references, index ferms

One of the trends of wireless sensor networks (WSN) is to allow multiple applications to run on top of the same sensor network. This will have an enormous impact on the way WSN applications are developed, deployed and maintained. Many applications for WSN are still developed on very low level functions provided by simple operating systems or bare hardware. Alternatively, generic WSN middleware focuses on very high-level system abstractions, such as declarative query languages, and acts as bla ...

Keyw rds: multi purpose wireless sensor networks, scopes

67 Embedded computation meets the World Wide Web Gaetano Borriello, Roy Want



May 2000 Communicati ns f the ACM, Volume 43 Issue 5

Full text available: pdf(456.09 KB) htmi(41,58 KB)

Additional Information: full citation, references, citings, index terms

68 Advancing interaction: Ambient intelligence: visualizing the future Boris de Ruyter, Emile Aarts



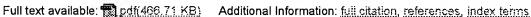
May 2004 Proceedings of the working conference on Advanced visual interfaces

Full text available: pot(164.30 KB) Additional Information: full citation, abstract, references

As technologies in the area of storage, connectivity and displays are rapidly evolving and business development is pointing to the direction of the experience economy, the vision of Ambient Intelligence is positioning the human needs central to technology development. Equipped with a special research instrument called HomeLab, scenarios of Ambient Intelligence are implemented and tested. As two examples of bringing real user experiences through display technology into the digital home, research ...

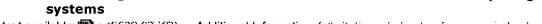
Keywords: Ambient Intelligence, HomeLab, user experiences

69 A diagnostic system based on a multi-decision approximate rules model Ray R. Hashemi, Fred Choobineh, John Talburt, William Slikker, Merle G. Paule April 1997 Proceedings of the 1997 ACM symposium on Applied computing



Keywords: approximate rule, diagnostic system, modified rough sets, multi-decision approximate rule, rough sets

70 Telepresence control of the NASA/DARPA robonaut on a mobility platform S. M. Goza, R. O. Ambrose, M. A. Diftler, I. M. Spain April 2004 Proceedings of the 2004 conference on Human factors in computing



Full text available: pdf(582,97 KB) Additional Information: full citation, abstract, references, index terms

Engineers at the Johnson Space Center recently combined the upper body of the National Aeronautics and Space Administration (NASA) / Defense Advanced Research Projects Agency (DARPA) Robonaut system with a Robotic Mobility Platform (RMP) to make an extremely mobile humanoid robot designed to interact with human teammates. Virtual Reality gear that immerses a human operator into Robonaut's working environment provides the primary control pathway for remote operations. Human/robot interface challe ...

Keywords: humanoid robot, teleoperation, telepresence

71 Modeling psycho-social attributes in conflict, extended

Dean S. Hartley

December 1995 Proceedings of the 27th c nference n Winter simulation

Full text available: 📆 pdf(643.54 KB) Additional Information: full citation, citings, index terms

72 Pervasive computing and virtual reality: Outdoor virtual reality

Bruce H. Thomas, Wayne Piekarski



Full text available: pcf(2.02 M6)

Additional Information: full citation, abstract, references

This paper presents our novel concept Outdoor Virtual Reality. By using outdoor augmented reality techniques we propose to build very wide area virtual reality systems, outdoor virtual reality. The concept of outdoor virtual reality is compared and contrasted to traditional definitions of augmented reality and virtual reality. We present our flexible Tinmith-evo5 software architecture as a platform to build outdoor virtual reality applications. We have constructed two outdoor virtual reality app ...

73 SENS: A Sensor, Environment and Network Simulator

Sameer Sundresh, Wooyoung Kim, Gul Agha

April 2004 Proceedings of the 37th annual symposium on Simulation

Full text available: pdf(203.24 KB) Publisher Site

Additional Information: full citation, abstract

Recent advances in micro electro-mechanical systems and VLSI lithography have enabled the miniaturization of sensors and controllers. Such minitiarization facilitates the deployment of large-scale wireless sensor networks(WSNs). However, the considerable cost of deploying and maintaining large-scale WSNs for experimental purposes makes simulation useful in developing dependableand portable WSN applications. SENS is a customizablesensor network simulator for WSN applications, consisting of interchangea ...

74 Voice biometrics

Judith A. Markowitz

September 2000 Communications of the ACM, Volume 43 Issue 9

Full text available: pdf(240.49 KB) **31** html(36.88 KB)

Additional Information: full citation, references, cilings, index terms

75 Robotics: introduction

Randolph Chung, Lynellen D. S. Perry

April 1998 Crossroads, Volume 4 Issue 3

Full text available: htm:(34.05 KB) Additional Information: full citation, index terms

76 Technology: a threat to democracy

R. D. Parslow

July 1982 ACM SIGCAS Computers and Society, Volume 12 Issue 3

Full text available: ndf(663.12 KB) Additional Information: full citation, abstract, relatences, clings

"Short-term unemployment trends are likely . . . But far more critical are the long-term dangers of drastic population bipolarization. This would appear to generate a small minority of technologically oriented elitists against a vast majority of unskilled, nearly unemployable workers. This event, predicted by some and doubted by others, would probably represent the end of the road for contemporary Western civilization as now understood" (1)

77 DATAPLOT—an interactive high-level language for graphics, non-linear fitting, data analysis, and mathematics

James J. Filliben



August 1981 ACM SIGGRAPH C mputer Graphics, Pr ceedings f the 8th annual c nference n Computer graphics and interactive techniques, Volume 15 Issue

Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, references, index terms

This paper describes the design philosphy and features of DATAPLOT—a high-level (freeformat English-like syntax) language for: 1) graphics (continuous or discrete); 2) fitting (linear or non-linear); 3) general data analysis; 4) mathematics. DATAPLOT was developed originally in 1977 in response to data analysis problems encount ...

Keywords: Computer graphics, Data analysis, Diagrams, Fitting, Graphics languages, High-level languages, Interactive computing, Mathematical modeling, Mathematics, Modeling, Portability, Scehematics, Software, Statistics

78 Man-machine interaction: Console oriented model building

M. Schatzoff

August 1965 Proceedings of the 1965 20th national conference

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, index terms

ALTHOUGH THE STEPS comprising the scientific method have been defined by many authors, in a variety of ways, there is substantial agreement with regard to the basic philosophy underlying the idea. As a point of reference for the ensuing discussion, it might be well to consider the following six phases of research considered by Ackoff1: (1) formulating the problem; (2) - constructing the model; (3) - testing the model; (4) deriving a solution from the model; (5) - te ...

79 Psychodiagnostic system

R. J. Stek

September 1987 ACM SIGBIO Newsletter, Volume 9 Issue 3

Full text available: pdf(622.50 KB) Additional Information: full citation, index ferms

80 UCSD center for wireless communications "sun, fun and Ph.D.s, too"

Ramesh R. Rao, Lawrence Larson

April 2000 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 4 Issue 2

Full text available: pdf(480.43 KB) Additional Information: full citation, abstract, index terms

Founded in 1995 by the University of California, San Diego and Industrial Participants, the Center for Wireless Communications collaborates to identify emerging opportunities, pursue basic research, and transfer relevant technology for subsequent commercialization.

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41 Experience with adaptive mobile applications in Odyssey

B. D. Noble, M. Satyanarayanan

December 1999 Mobile Networks and Applications, Volume 4 Issue 4

Full text available: pdf(144.16 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present our experience with application-aware adaptation in the context of Odyssey, a platform for mobile data access. We describe three applications that we have modified to run on Odyssey — a video player, a Web browser, and a speech recognition system. Our experience indicates that it is relatively simple to incorporate applications into Odyssey, and that application source code is not always essential. Although our applications

42 Adaptive middleware for context-aware applications in smart-homes

Markus C. Huebscher, Julie A. McCann

October 2004 Proceedings of the 2nd workshop on Middleware for pervasive and adhoc computing

Full text available: Additional Information: full citation, abstract, references, index terms

We propose an adaptive middleware design for context-aware applications that abstracts the applications from the sensors that provide context. Further, we use application-specific utility functions to choose, given multiple alternatives for providing a specific context, one alternative at any time that provides the context for all applications, whilst maximising the applications' total "satisfaction" with the quality of context from the chosen provider. Our middleware also implements autonomi ...

Keywords: adaptive distributed service provision, context-awareness

43 Database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik

September 1997 ACM SIGMOD Record, Volume 26 Issue 3

Full text available: pdf(1.23 MB)

Additional Information: full citation, citings, index terms

44 Strategic directions in database systems—breaking out of the box Avi Silberschatz, Stan Zdonik



	December 1996 ACM C mputing Surveys (CSUR), Volume 28 Issue 4 Full text available: pdf(222.64 KB) Additional Information: fail citation, references, citings, index terms	
45	The CHI conference: interviews with conference chairs Steven Pemberton January 1996 ACM SIGCHI Bulletin, Volume 28 Issue 1	
	Full text available: pdf(1,29 MB) Additional Information: full citation, index terms	
46	Computer-human interface solutions for emergency medical care Thomas G. Holzman May 1999 interactions, Volume 6 Issue 3	
	Full text available: pdf(528.40 KB) Additional Information: full citation, references, citings, index terms, review	
47	NEXUS: a linguistic technique for procoordination R. A. Benson September 1969 Proceedings of the 1969 conference on Computational linguistics	
	Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references	
	A method for automatically precoordinating index terms was devised to form combinations of terms which are stored as subject headings. A computer program accepts lists of auto-indexed terms and by applying linguistic and sequence rules combines appropriate terms, thereby effecting improved searchability of an information storage and retrieval system. A serious failing exists in many indexing systems in that index terms authorized for use are too general for use by technically-knowledgeable search	
48	Mobility support in IPv6 Charles E. Perkins, David B. Johnson November 1996 Proceedings of the 2nd annual international conference on Mobile computing and networking	
	Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms	
49	Organizational limits to HCI: conversations with Don Norman and Janice Rohn Richard Anderson June 2000 interactions, Volume 7 Issue 3	
	Full text available: pdf(1.97 MB) Additional Information: full citation, citings, index terms	
50	Risks to the public in computer systems Peter G. Neumann April 1986 ACM SIGSOFT S ftware Engineering N tes, Volume 11 Issue 2 Full text available: pdf(1.41 MB) Additional Information: full citation, index terms	

Using association rules for product assortment decisions: a case study

Tom Brijs, Gilbert Swinnen, Koen Vanhoof, Geert Wets

August 1999 Pr ceedings f the fifth ACM SIGKDD internati nal conference n Kn wledge discovery and data mining

Full text available: pdf(799.10 KB) Additional Information: full citation, references, citings, index terms

Keywords: association rules, frequent itemset, product assortment decisions

52 Opinion: Electronic voting systems; the good, the bad, and the stupid Barbara Simons

October 2004 Queue, Volume 2 Issue 7

Full text available: pdf(594.04 KB)

Additional Information: full citation html(25.97 KB)

53 Group and Individual Time Management Tools: What You Get is Not What You Need A. E. Blandford, T. R. G. Green

January 2001 Personal and Ubiquitous Computing, Volume 5 Issue 4

Full text available: pot(250.35 KB) Additional Information: full citation, abstract, index terms

Some studies of diaries and scheduling systems have considered how individuals use diaries with a view to proposing requirements for computerised time management tools. Others have focused on the criteria for success of group scheduling systems. Few have paid attention to how people use a battery of tools as an ensemble. This interview study reports how users exploit paper, personal digital assistants (PDAs) and a group scheduling system for their time management. As with earlier studies, we fin ...

54 Articles: Data analysis and mining in the life sciences

Nam Huyn

September 2001 ACM SIGMOD Record, Volume 30 Issue 3

Full text available: pdf(1.00 MB)

Additional Information: full citation, abstract, references, citings, index

Biotech companies routinely generate vast amounts of biological measurement data that must be analyzed rapidly and mined for diagnostic, prognostic, or drug evaluation purposes. While these data analysis tasks are critical to their success, they have not benefited from recent advances that emerged from database and KDD research. In this paper, we focus on two such tasks: on-line analysis of clinical study data, and mining broad datasets for biomarkers. We examine the new requirements that are no ...

55 Multimedia for tiny devices: Panoptes: scalable low-power video sensor networking technologies

Wu-chi Feng, Brian Code, Ed Kaiser, Mike Shea, Wu-chang Feng, Louis Bavoil November 2003 Proceedings of the eleventh ACM international conference on Multimedia

Full text available: pdf(483,71 KB) Additional Information: full citation, abstract, references, index terms

Video-based sensor networks can provide important visual information in a number of applications including: environmental monitoring, health care, emergency response, and video security. This paper describes the Panoptes video-based sensor networking architecture, including its design, implementation, and performance. We describe a video sensor platform that can deliver high-quality video over 802.11 networks with a power requirement of approximately 5 watts. In addition, we describe the streami ...

Keyw rds: JPEG, MPEG, sensors, video sensors, video streaming

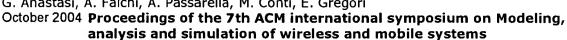
56 Reports: On building an infrastructure for mobile and wireless systems: report on the NSF workshop on an infrastructure for mobile and wireless systems, Oct. 15, 2001 Birgitta König-Ries, Kia Makki, Sam Makki, Charles Perkins, Niki Pissinou, Peter Reiher, Peter Scheuermann, Jari Veijalainen, Ouri Wolfson



June 2002 ACM SIGMOD Record, Volume 31 Issue 2

Full text available: pdf(718.49 KB) Additional Information: full citation, citings

57 Sensor networks: Performance measurements of motes sensor networks G. Anastasi, A. Falchi, A. Passarella, M. Conti, E. Gregori



Full text available: pdf(334.52 KB) Additional Information: full citation, abstract, references, index ferms

In this paper we investigate the performance of mica2 and mica2dot Berkeley motes by means of an extensive experimental analysis. This study is aimed at analyzing the main elements that characterize the performance of a sensor network, e.g., power consumption in different operating conditions, impact of weather conditions, interference between neighboring nodes, etc. Even if the analysis is related to a specific technology it provides some general useful information. Specifically, we found that ...

Keywords: mica motes, sensor networks

58 Oral presentation session 1: Experiences of using wearable computers for ambient telepresence and remote interaction



Mikael Drugge, Marcus Nilsson, Roland Parviainen, Peter Parnes

October 2004 Proceedings of the 2004 ACM SIGMM workshop on Effective telepresence

Full text available: pdf(1,11 MB) Additional Information: full citation, abstract, references, index terms

We present our experiences of using wearable computers for providing an ambient form of telepresence to members of an e-meeting. Using a continuously running e-meeting session as a testbed for formal and informal studies and observations, this form of telepresence can be investigated from the perspective of remote and local participants alike. Based on actual experiences in real-life scenarios, we point out the key issues that prohibit the remote interaction from being entirely seamless, and ...

Keywords: ambient telepresence, mobile e-meetings, remote interaction

59 Analysis methodology I: New results on procedures that select the best system using CRN



Stephen E. Chick, Koichiro Inoue

December 2000 Proceedings of the 32nd conference on Winter simulation

Full text available: pdf(97.12 KB) Additional Information: full citation, abstract, references, citings

One use of simulation is to inform decision makers that seek to select the best of several alternative systems. The system with the highest (or lowest) mean value for simulation output is often selected as best, and simulation output is used to infer the value of the unknown mean of each system. Statistical procedures that help to identify the best system by suggesting an appropriate number of replications for each system are therefore useful tools in simulation. This article explores the perfor ...

Using univariate Be´zier distributions to model simulation input processes
Mary Ann Flanigan Wagner, James R. Wilson
December 1993 Pr ceedings f the 25th conference on Winter simulation
Full text available: pdf(759.10 KB) Additional Information: full citation, references, citings



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21 OLAP: An analysis of additivity in OLAP systems

window

John Horner, Il-Yeol Song, Peter P. Chen

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Full text available: pdf(322.41 KB) Additional Information: full citation, abstract, references, index terms

Accurate summary data is of paramount concern in data warehouse systems; however, there have been few attempts to completely characterize the ability to summarize measures. The sum operator is the typical aggregate operator for summarizing the large amount of data in these systems. We look to uncover and characterize potentially inaccurate summaries resulting from aggregating measures using the sum operator. We discuss the effect of classification hierarchies, and non-, semi-, and fully- addi ...

Keywords: OLAP, additivity, data warehouse, metadata, summarization

22 Power supply, voitage, and frequency management: Power utility maximization for multiple-supply systems by a load-matching switch

Chulsung Park, Pai H. Chou

August 2004 Proceedings of the 2004 international symposium on Low power electronics and design

Full text available: pdf(1.32 MB)

Additional Information: full citation, abstract, references, index terms

For embedded systems that rely on multiple power sources (MPS), power management must distribute the power by matching the supply and demand in conjunction with the traditional power management tasks. Proper load matching is especially critical for renewable power sources such as solar panels and wind generators, because it directly affects the utility of the available power. This paper proposes a power distribution switch and a source-consumption matching algorithm that maximizes the total util ...

Keywords: load matching, photovoltaics, power management, power model, solar energy, solar-aware

23 State-of-the-art presentations: Safety critical systems: challenges and directions John C. Knight

May 2002 Proceedings of the 24th International C nference n S ftware Engineering

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(450.62 KB)

terms

Safety-critical systems are those systems whose failure could result in loss of life, significant property damage, or damage to the environment. There are many well known examples in application areas such as medical devices, aircraft flight control, weapons, and nuclear systems. Many modern information systems are becoming safety-critical in a general sense because financial loss and even loss of life can result from their failure. Future safety-critical systems will be more common and more pow ...

²⁴ Transactional workflow paradigm; its application to mobile computing V. K. Murthy



February 1998 Proceedings of the 1998 ACM symposium on Applied Computing

Full text available: 📆 pdf(997.50 KB) — Additional Information: full citation, references, citings, index terms

Keywords: agents, intention-action protocols, mobile transactions, serializability, workflow

25 Storage: An evaluation of multi-resolution storage for sensor networks Deepak Ganesan, Ben Greenstein, Denis Perelyubskiy, Deborah Estrin, John Heidemann November 2003 Proceedings of the 1st international conference on Embedded networked sensor systems



Full text available: pdf(299.34 KB) Additional Information: full citation, abstract, references, citings

Wireless sensor networks enable dense sensing of the environment, offering unprecedented opportunities for observing the physical world. Centralized data collection and analysis adversely impact sensor node lifetime. Previous sensor network research has, therefore, focused on in network aggregation and query processing, but has done so for applications where the features of interest are known a priori. When features are not known a priori, as is the case with many scientific applications in dens ...

²⁶ Social Analyses of Computing: Theoretical Perspectives in Recent Empirical Research Rob Klina



January 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 1

Full text available: pdf(3.98 MB)

Additional Information: full citation, references, citings, index terms

27 The Computer in the Humanities and Fine Arts

Sally Yeates Sedelow



Full text available: R pdf(2.01 MB)

Additional Information: full citation, references, citings, index terms

28 Smart Clothing Prototype for the Arctic Environment

J. Rantanen, J. Impiö, T. Karinsalo, M. Malmivaara, A. Reho, M. Tasanen, J. Vanhala January 2002 Personal and Ubiquitous Computing, Volume 6 Issue 1



Continuous miniaturisation of electronic components has made it possible to create smaller and smaller electrical devices which can be worn and carried all the time. Together with developing fibre and textile technologies, this has enabled the creation of truly usable smart clothes that resemble clothes more than wearable computing equipment. These intelligent

clothes are worn like ordinary clothing and provide help in various situations according to the application area. This paper describes th ...

29 Understanding patients: participatory approaches for the user evaluation of vital data presentation



Karl A. Stroetmann, Michael Pieper, Veli N. Stroetmann

June 2002 ACM SIGCAPH Computers and the Physically Handicapped, Proceedings of the 2003 conference on Universal usability, Issue 73-74

Full text available: pdf(186.52 KB) Additional Information: full citation, abstract, references, index terms

The objective of our research was to undertake first steps to analyse patient access to their electronic health records (EHR) as a crucial universal access issue: Why is patient involvement becoming a key issue, what approaches are available to learn more about patient attitudes and needs, which concrete outcomes can be obtained from such research? The paper outlines a reference scenario for tele home monitoring of chronically ill patients including measurement devices and system environment, pr ...

Keywords: assessment, electronic health record, participatory approaches, patient, telemonitoring, universal access, validation

30 Accessibility: Hands-free documentation

Karen Ward, David G. Novick

October 2003 Proceedings of the 21st annual international conference on Documentation

Full text available: pdf(228.79 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce an analysis of the requirements and design choices for handsfree documentation. Hands-busy tasks such as cooking or car repair may require substantial interruption of the task: moving the pan off the burner and wiping hands, or crawling out from underneath the car. We review the need for hands-free documentation and explore the role of task in the use of documentation. Our central analysis examines the roles and characteristics of input and output modalities of hands ...

Keywords: hands-free, modality, speech, spoken-language interface

31 Statistics, stationarity and random number generation

Robert Bohrer, Peter B. Imrey

December 1977 Proceedings of the 9th conference on Winter simulation - Volume 1

Full text available: pdf(696.14 KB) Additional Information: full citation, abstract, references, index ferms

This paper remarks upon some issues involved in evaluating the "randomness" of numerical sequences. The question of how much to test is addressed, particularly with respect to pseudorandom generators. Historical failures of seemingly random sequences are noted. The dependence of evaluation programme upon proposed use of the sequence is stressed. The meaning and importance of stationarity are considered, and results from statistical distribution theory useful in checking for it, ...

32 Tradeoffs and design of an ultra low power UHF transceiver integrated in a standard digital CMOS process

Alain-Serge Porret, Thierry Melly, E. A. Vittoz, C. C. Enz

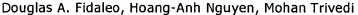
August 2000 Proceedings f the 2000 internati nal symp sium n Low p wer electr nics and design

Full text available: pof(1.17 MB) Additional Information: bit citation, abstract, references, index terms

A broad range of high-volume consumer applications require low-power, battery operated, wireless microsystems and sensors. These systems should conciliate a sufficient battery lifetime with reduced dimensions, low cost and versatility. The design of such systems highlights many tradeoffs between performances, lifetime, cost and power consumption. Also, special circuit and design techniques are needed to comply with the reduced supply voltage (down to 1V). These considerations are ...

Keywords: CMOS, RF, low-power, low-voltage, transceiver

33 Systems: The networked sensor tapestry (NeST); a privacy enhanced software architecture for interactive analysis of data in video-sensor networks



October 2004 Proceedings of the ACM 2nd international workshop on Video surveillance & sensor networks

Full text available: (674.07 KB) Additional Information: full citation, abstract, references, index terms

This paper details the architecture of a test-bed under development for secure sharing, capture, distributed processing, and archiving of surveillance data called the Networked Sensor Tapestry (NeST). The test-bed consists of core software modules including a centralized server, client interface library, a layered XML messaging scheme. Mobile hardware clients are interfaced to the NeST using a Tiny-OS based microcontroller with sensor data collected over a 1-wire data bus. Maintaining subject ...

Keywords: privacy, surveillance architecture, video-sensor networks

34 Ubiquitous computing/security: Towards a new paradigm for securing wireless sensor networks

K. Jones, A. Wadaa, S. Olariu, L. Wilson, M. Eltoweissy August 2003 Proceedings of the 2003 workshop on New security paradigms

Full text available: pdf(718.31 KB) Additional Information: full citation, abstract, references

The network model assumed in this paper consists of tiny, energy-constrained, commodity sensors massively deployed alongside with one or more sink nodes that provide the interface to the outside world. The sensors in the network are initially anonymous and unaware of their location. Our main contribution is to propose a new robust and energyefficient solution for secure operation of wireless sensor networks. The paper motivates a new paradigm where security is based upon using parameterized fre ...

Keywords: energy-efficient protocols, frequency hopping, security, wireless sensor networks

35 Challenges: Challenges:: environmental design for pervasive computing systems Ravi Jain, John Wullert



September 2002 Proceedings of the 8th annual international conference on Mobile computing and networking

Full text available: pdf(212.37 KB) Additional Information: full citation, abstract, references, index terms

We argue that pervasive computing offers not only tremendous opportunities and exciting research challenges but also possible negative environmental impacts, particularly in terms of physical waste and energy consumption. These environmental impacts will come under increasing government and consumer scrutiny, and like other disciplines (e.g. architecture, transportation), pervasive computing will have to adapt accordingly. Further, we argue that software-related issues will play an increasing ro ...

Keywords: environmental impacts, green computing, pervasive computing

36 Computer based strategies for clustering jobs

Patrick R. Pinto

June 1972 Pr ceedings f the tenth annual SIGCPR c nference

Full text available: pdf(742.58 KB) Additional Information: full citation, abstract, references, index terms

This paper is a review of some practical procedures for clustering jobs into homogeneous groups. The techniques are mainly statistical, and all have in common the collection of multivariate data on several jobs. Since the storage and processing requirements are well beyond the capabilities of any manual system of computation, I think it is appropriate that these procedures be reviewed before a group such as yours that has such a keen interest in using the computer in personnel research.

37 On-demand data broadcasting for mobile decision making

Mohamed A. Sharaf, Panos K. Chrysanthis

December 2004 Mobile Networks and Applications, Volume 9 Issue 6

Full text available: (376.39 KB) Additional Information: full citation, abstract, references, index terms

The wide spread of mobile computing devices is transforming the newly emerged ebusiness world into a mobile e-business one, a world in which hand-held computers are the user's front-ends to access enterprise data. For good mobile decision making, users need to count on up-to-date, business-critical data. Such data are typically in the form of summarized information tailored to suit the user's analysis interests. In this paper, we are addressing the issue of time and energy efficient delivery ...

Keywords: OLAP, broadcast pull, broadcast scheduling, mobile commerce, mobile computing, power-aware computing, wireless communication

38 Columns: Risks to the public in computers and related systems

Peter G. Neumann

November 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 6

Full text available: pdf(124.63 KB) Additional Information: fell citation

39 Columns: Risks to the public in computers and related systems

Peter G. Neumann

March 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 2

Full text available: pdf(165.39 KB) Additional Information: full citation

40 Localization and timesynch: The flooding time synchronization protocol

Miklós Maróti, Branislav Kusy, Gyula Simon, Ákos Lédeczi

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(178.49 KB) Additional Information: full citation, abstract, references, index terms

Wireless sensor network applications, similarly to other distributed systems, often require a scalable time synchronization service enabling data consistency and coordination. This paper describes the Flooding Time Synchronization Protocol (FTSP), especially tailored for applications requiring stringent precision on resource limited wireless platforms. The proposed time synchronization protocol uses low communication bandwidth and it is robust against node and link failures. The FTSP achieves ...

Keywords: clock drift, clock synchronization, multi-hop, sensor networks, time synchronization

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Systems II: An analysis of a large scale habitat monitoring application Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(1.22 MB)

Additional Information: full citation, abstract, references, index terms

Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and the the static and dynamic aspects of single an ...

Keywords: application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

Applications and OS: Wireless sensor networks for habitat monitoring Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson September 2002 Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications

Full text available: pdf(542.04 KB)

Additional Information: full citation, abstract, references, citings, index terms

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

Illustrative risks to the public in the use of computer systems and related technology Peter G. Neumann January 1996 ACM SIGSOFT S ftware Engineering Notes, Volume 21 Issue 1

Full text available: pdf(2.54 MB)

Additional Information: fall citation

4 <u>A utility-based power-control scheme in wireless cellular systems</u> Mingbo Xiao, Ness B. Shroff, Edwin K. P. Chong April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2



Full text available: pdf(650.72 KB) Additional Information: full citation, abstract, references, index terms

Distributed power-control algorithms for systems with hard signal-to-interference ratio (SIR) constraints may diverge when infeasibility arises. In this paper, we present a power-control framework called utility-based power control (UBPC) by reformulating the problem using a softened SIR requirement (utility) and adding a penalty on power consumption (cost). Under this framework, the goal is to maximize the net utility, defined as utility minus cost. Although UBPC is still noncooperative and dis ...

Keywords: Nash equilibrium, Pareto optimal, admission control, cellular system, distributed algorithm, fairness, power control, robustness, signal-to-interference ratio (SIR), stability, utility function, wireless

5 Wide-area monitoring of mobile objects: Electronic shepherd: a low-cost, low-bandwidth, wireless network system



Bjørn Thorstensen, Tore Syversen, Trond-Are Bjørnvold, Tron Walseth

June 2004 Proceedings of the 2nd international conference on Mobile systems,
applications, and services

Full text available: pdf(409.68 KB) Additional Information: full citation, abstract, references, index terms

This paper reports a new novel low-cost, wireless communication network system, called the "Electronic Shepherd" (ES). The system is innovative in the way that it supports flock behavior, meaning that a flock leader monitors the state of the other elements in the flock using low-cost radio communication equipment. The paper addresses both details of the terminal devices and communication protocols, as well as testing of the system in a real environment. The ES system was originally made to addre ...

Keywords: GPRS, GPS, animal tracking, cost-effective communication, low-power equipment, rural computing, short-range communication, wireless network

Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect Transmissions (HIT) for data gathering in wireless micro sensor networks Benjamin J. Culpepper, Lan Dung, Melody Moh



January 2004 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 8 Issue 1

Full text available: pdf(440.82 KB) Additional Information: full citation, abstract, references

Sensor networks have many potential applications in biology, physics, medicine, and the military. One major challenge in sensor networks is to maximize network life under the constraint of limited power supply. The paper addresses energy-efficiency in the context of routing and data gathering. A new protocol is proposed: Hybrid Indirect Transmission (HIT). HIT is based on a hybrid architecture that consists of one or more clusters, each of which is based on multiple, multi-hop indirect transmiss ...

7 Information, technical writing, knowledge and power: a case study of NASA's Cassini project



Mattio Valentino

February 1999 ACM SIGDOC Asterisk J urnal f C mputer D cumentati n, Volume 23 Issue

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, index terms

The study of technology should not limit its scope to hardware, software, applications and systems; it should also involve language, how language shapes and is shaped by information, how information becomes knowledge, and how dominant knowledge can become power, all within the complex contexts of human culture. Technology transfer, the transfer of the knowledge of technology, is mediated by language, which, paradoxically, is itself a technology. What happens, then, when one community attempts to ...

Systems 1: A wireless sensor network For structural monitoring

Ning Xu, Sumit Rangwala, Krishna Kant Chintalapudi, Deepak Ganesan, Alan Broad, Ramesh Govindan, Deborah Estrin

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(731.28 KB) Additional Information: full citation, abstract, references, index terms

Structural monitoring---the collection and analysis of structural response to ambient or forced excitation--is an important application of networked embedded sensing with significant commercial potential. The first generation of sensor networks for structural monitoring are likely to be data acquisition systems that collect data at a single node for centralized processing. In this paper, we discuss the design and evaluation of a wireless sensor network system (called Wisden for structural dat ...

Keywords: Wisden, sensor network, structural health monitoring

A bluetooth based sensor network for civil infrastructure health monitoring Vipin Mehta, Magda El Zarki

July 2004 Wireless Networks, Volume 10 Issue 4

Full text available: pdf(307.57 KB) Additional Information: full citation, abstract, references, index terms

Communicating with sensors has long been limited either to wired connections or to proprietary wireless communication protocols. Using a ubiquitous and inexpensive wireless communication technology to create Sensor Area Networks (SANs) will accelerate the extensive deployment of sensor technology. Bluetooth, an emerging, worldwide standard for inexpensive, local wireless communication is a viable choice for SANs because of its inherent support for some of the important requirements-low power, sm ...

Keywords: bluetooth, link strength, load balancing, power consumption, scatternet, scheduling, simulated annealing, timing accuracy, topology design

10 Memory hierarchy reconfiguration for energy and performance in general-purpose processor architectures

Rajeev Balasubramonian, David Albonesi, Alper Buyuktosunoglu, Sandhya Dwarkadas December 2000 Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture

Full text available: pdf(155,56 KB)

ps(663,39 KB) Publisher Site

Additional Information: full citation, references, citings, index terms

11 Utilizing mobile computing in the Wishard Memorial Hospital ambulatory service Stuart Morton, Omran Bukhres



April 1997 Pr ceedings f the 1997 ACM symp sium n Applied c mputing

Full text available: pdf(787.05.KB) Additional Information: full citation, references, index terms

Keyw rds: disconnection handling, distributed systems, medical patient database, mobile hosts, mobile transaction processing

12 Risks to the public: Risks to the public in computers and related systems



Peter G. Neumann

May 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 3

Full text available: pdf(1.92 MB) Additional Information: full citation

13 SPINS: security protocols for sensor networks

Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler September 2002 Wireless Networks, Volume 8 Issue 5



Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks will be widely deployed in the near future. While much research has focused on making these networks feasible and useful, security has received little attention. We present a suite of security protocols optimized for sensor networks: SPINS. SPINS has two secure building blocks: SNEP and µTESLA. SNEP includes: data confidentiality, two-party data authentication, and evidence of data freshness. µTESLA provides authenticated broadcast for severely resource-constrained ...

Keywords: MANET, authentication of wireless communication, cryptography, mobile ad hoc networks, secrecy and confidentiality, secure communication protocols, sensor networks

14 Platforms: DFuse: a framework for distributed data fusion.



Rajnish Kumar, Matthew Wolenetz, Bikash Agarwalla, JunSuk Shin, Phillip Hutto, Arnab Paul, Umakishore Ramachandran

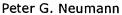
November 2003 Proceedings of the 1st international conference on Embedded networked sensor systems

Full text available: 📆 pdf(541.24 KB) — Additional Information: fbii citation, sibstract, references, index terms

Simple in-network data aggregation (or fusion) techniques for sensor networks have been the focus of several recent research efforts, but they are insufficient to support advanced fusion applications. We extend these techniques to future sensor networks and ask two related questions: (a) what is the appropriate set of data fusion techniques, and (b) how do we dynamically assign aggregation roles to the nodes of a sensor network. We have developed an architectural framework, DFuse, for ans ...

Keywords: data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment, sensor network

15 Columns: Risks to the public in computers and related systems.



January 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Full text available: pdf(3.24 MB) Additional Information: full citation

16 Articles: The cougar approach to in-network query processing in sensor networks Yong Yao, Johannes Gehrke



September 2002 ACM SIGMOD Rec rd, Volume 31 Issue 3

Full text available: 📆 pdf(988.47 KB) — Additional Information: full citation, abstract, references, citings

The widespread distribution and availability of small-scale sensors, actuators, and embedded processors is transforming the physical world into a computing platform. One such example is a sensor network consisting of a large number of sensor nodes that combine physical sensing capabilities such as temperature, light, or seismic sensors with networking and computation capabilities. Applications range from environmental control, warehouse inventory, and health care to military environments. Existi ...

17 Wireless sensor networks: Habitat monitoring with sensor networks



Robert Szewczyk, Eric Osterweil, Joseph Polastre, Michael Hamilton, Alan Mainwaring, Deborah Estrin

June 2004 Communications of the ACM, Volume 47 Issue 6

Full text available: pdf(212.25 KB) 1 htm:(35.31 KB)

Additional Information: full citation, abstract, references, index terms

These networks deliver to ecologists data on localized environmental conditions at the scale of individual organisms to help settle large-scale land-use issues affecting animals, plants, and people.

18 Poster session 1: Multimodal interaction under exerted conditions in a natural field setting



Sanjeev Kumar, Philip R. Cohen, Rachel Coulston

October 2004 Proceedings of the 6th international conference on Multimodal interfaces

Full text available: pdf(276.49 KB) Additional Information: full citation, abstract, references, index terms

This paper evaluates the performance of a multimodal interface under exerted conditions in a natural field setting. The subjects in the present study engaged in a strenuous activity while multimodally performing map-based tasks using handheld computing devices. This activity made the users breathe heavily and become fatigued during the course of the study. We found that the performance of both speech and gesture recognizers degraded as a function of exertion, while the overall multimodal succ ...

Keywords: evaluation, exertion, field, mobile, multimodal interaction

19 Columns: Risks to the public in computers and related systems



Peter G. Neumann

November 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 6

Full text available: pdf(1,25 MB)

Additional Information: full citation, references

20 Medical informatics: a personal view of sowing the seeds



R. S. Ledlev

December 1987 Proceedings of ACM conference on Hist ry f medical informatics

Full text available: pdf(1,37 MB)

Additional Information: full citation, references, index terms

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